



STDN DAILY REPORT
FOR GMT DAYS
22, 23, 24 AND 25 MARCH , 2001

Part I. Operations

22 March

A. SN Anomalies - None.

B. ISS/ECOMM ANOMALIES - None.

C. GN Anomalies:

1. AGS/WIRE Support 22/033839-0350Z

Commanding was not achieved due to analog matrix switch problem (no uplink mod at the attenuator input).
TTR # 23755 CDS ID# 18353

TOTS 11 Mins. 21 Secs. Service Loss

2. WGS/SAMPEX Support 22/0901-0912Z

Everything appeared nominal on site, the status was updating on the Master VC counts, monitor blocks were updating and all sockets showed connection on the work station. However, there were no comands received on site and at the end of the pass there was no data on PAC #1 when the playback was attempted, there was data on PAC #2 and it was played back with no problem. TTR # 23756 CDS ID# 18355

TOTS 11 Mins. Service Loss

3. AGS/EO-1 Support 22/082123-082306Z

Began pass support in normal manner. At 5 minutes and 23 seconds into the support the Azimuth Axis of the antenna dropped into the standby mode. EO-1 MOCC inquired about the loss of data. After determining the antenna azimuth axis was the problem, the operator selected the rate mode and the antenna slewed to the intercept points and reacquired the Spacecraft. The uplink was reswept and the rest of the pass was completed with no further problems. Post pass investigation of the SCC and the antenna did not reveal any satisfactory answers for this problem. Suspect an SCC software problem. The SCC message file was saved as EO108220816.txt, in the SCC etc folder. TTR # 23757 CDS ID# 18356

11M 0816-0828Z 1 Min. 43 Secs. Service/Data Loss
Non-Recoverable

4. SGS/LSAT-7 Support 22/132054-13343Z

Station lost X band tracking at AOS. The antenna switched over to SLH. We tried to force it back to X-band, without any success. Looking into the track analysis and pedangle logs we saw the X-band was bad through the whole support, also a playback confirmed this. TTR # 23758 CDS ID# 18358

11M 12 Mins. 49 Secs. Service/Data Loss Non-Recoverable

5. WGS/FAST Support 22/0026-0035Z

System failed to process telemetry data during support. Post pass analysis of system event log revealed that the 1620 combiner rejected the directives to configure causing the data not to be passed to the bit syncs. Post pass testing has found that the combiner is working at this time. Reason for the directives to fail is not known at this time.
TTR # 23759 CDS ID# 18359

LEO-T 9 Mins. Service/Data Loss Recoverable (unknown)

6. PK1/QUIKSCAT Support 22/111214-112516Z

As a workaround to reduce the number of CRC errors on the 2M data due to interference by the antenna S-Band scanner and heaters, the antenna is usually configured to program track for QUIKSCAT supports with the scanner turned off. In this instance, only part of the procedure was executed to force a program track and the antenna was left in an anomalous mode. This caused 150 CRC errors on the 2m data. Data recoverable. TTR # 23762 CDS ID# 18364

PF1 Amount of Data Loss unknown At This Time

7. WGS/TOMS Support

22/1536-1550Z

When uplink carrier was activated on the 11Meter operator noticed the spectrum display was abnormal and project report spacecraft receivers were not locking to the uplink. Investigation found HPA indicated high VSWR. Uplink on 11Meter was secured and 9Meter uplink was configured for support. All commanding and data was recovered for this support using the 9 Meter uplink system. Post pass troubleshooting into High VSWR has revealed that the 11 Meter dry air compressor failed yesterday and water in the wave guild is the suspect problem at this time. Currently the 11 Meter is red for support. TTR # 23763 CDS ID# 18365

11M 14 Mins Service Loss

8. SGS/QST Support

22/162042-163516Z

The IP address change process took longer than expected. This pass was scheduled to be deleted for the IP address changeover activity. WOTIS was unable to schedule the pass with SGS. As a result of the IP address changeover delays, connectivity between all ground station elements was not possible during the pass, and no data was captured. WOTIS and QuikSCAT have been notified. TTR # 23765 CDS ID# 18367

14 Mins. 34 Secs. Service/Data Loss Recoverable (unknown)

D. NAM 522 was issued to alert the SN community of a STGT

software delivery.

Nam 523 was issued to alert the SN community of a TDRS-5 handover from SGLT-2 to SGLT-1.

Nam 524 was issued to alert the SN community of a total power outage scheduled for building 23 (GSFC).

Nam 525 was issued to alert the SN community of a NCCDS MO1.1 software delivery.

23 March

A. SN Anomalies:

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies

1. SKS/QUIKSCAT Support

23/123248-124420Z

Following an IP address change performed on Day 081, we experienced an inability to establish an IP connection to flow 4K real-time housekeeping data to the QuikSCAT Mission Operations Center (QMOC). This was the first QuikSCAT operational pass following the IP address change. The problem appeared to be on the QMOC end and normal troubleshooting procedures did not detect a problem at SKS. The connection to the JPL QuikSCAT science center was successful. The data collection HK1, HK2, and science data was successful and sent to SAFS. The tracking data was also sent to the Flight Dynamics Facility. The Next QuikSCAT was successful. The QMOC noted the problem had been on their end and had been corrected.
TTR # 23766 CDS # 18374

11 Mins 32 Secs Service/Data loss Recoverable

24 March

A. SN Anomalies: - None.

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies

1. WGS/SEAWIFS Support

24/0413-1805Z

After being a couple of minutes into the pass and not seeing any downlink the station put the 9 Meter system on the satellite. There was no RF present on either systems, the TM has been notified. It is likely that the satellite has been placed in safe haven for a couple of days and we have not been notified. TTR # 23767 CDS ID# 18377

11M 0413-0427Z 14 Mins. Service/Data Loss Recoverable (unknown)

11 M 1752-1805Z 13 Mins. Service/Data Loss Recoverable (unknown)

2. WGS/SAMPEX Support

24/0856-0909Z

Everything appeared nominal on site, status was updating on the Master VC counts, monitor blocks were updating and all sockets showed connection on the work station, and comands were received on site, however when the playback was attempted there was no data on PAC #1. The playback was not performed until after the FAST pass which followed almost immediately after the Sampex pass. There were no changes made between the passes and on the FAST pass commands came in with no problem and there was data on PAC # 1 when the playback was done. The project and the TM has been notified. This appears to be almost identical to the Sampex pass on Day 082 with the exception that we received comands. It seems to be isolated to SAMPEX, no other supports are having the problem. Appears to possible be a configuration problem. TTR # 23768 CDS ID# 23768

TOTS 13 Minutes Service/Data Loss Recoverable

3. SGS/EO-1 Support

24/113052-114428Z

We noticed here that the cmd module on our PTP was not connected. EO1MOC reported that they had problems with their cmd system. They tried to connect up to our PTP with no success. When we tried to enable the CMD module on our PTP, it hung. Recycled the PTP software(server and desktop) and asked EO1 to re-connect, we established contact with EO1 approx. half a minute before LOS. After LOS we reset the whole system, and we also repowered the PTP. TTR # 23769 CDS # 18379

11 Meter 13 Mins. 36 Secs. Svc/Data Loss Unknown If Recoverable

4. AGS/LSAT-7 Support

24/194745-200212Z

At initialization, The digital switch icon on the master red boxed. I attempted to open the switch from the master to check config but could not gain access. I then moved to the Node where access was also denied to the switch. I completed a patch around but found an error in documentation. No data was lost, but the daily uplink to the space craft could not be completed. After rebooting the GDP911 and the node, all naming was gone from the source and target lists. Names were typed back in and the next LS/7 pass went without any problems. Data was all recorded both in X and S band. X band tape will be shipped to LS/7 and S-band data was not requested but might be played back later if requested. TTR # 23770 CDS ID# 18380

11M 13 Mins. 57 Secs. Service Loss

25 March

A. SN Anomalies:

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies

1. AGS/EO-1 Support

25/0847-0859Z

Pass started normal. Notified project when we were go for command. Project said that they were not able to command. They were not receiving command echo. PTP on station was indicating that we were connected, but was not seeing commands. Post pass system check indicated no problems with station. After our next pass, we scheduled with the project to run a test. Reconfigured station and ran test with project. Commands arrived to station and could not duplicate problem. Project indicated that they were receiving telemetry.

TTR # 23771 CDS # 18382

11 Meter 12 Minutes Service/Data Loss Recoverable

2. SGS/LSAT-7 Support

25/1039-1047Z

Problems with LS7 X-band tracking. Data Loss is Unknown. Processing will show us the result. Autodiversity was used at AOS. X-band AOS + 4 minutes we saw that the tracking signal was not to good and we decided quickly to swap back to SLHC track. During post pass we checked the track analysis and it showed us that the tracking signal for x-band was only about 20dB. When we have a normally x-band track, the S/S is about 35 - 40 dB. If we compare a good track result with a bad one, it looks like sometimes it wouldn't swap to x-band track as expected.

Logs : None AGC drops during support due to the quickly swapping between X and S-band track. The datascopes shows a lot of CRC/VCDU/CADU-errors

Further we checked for loose connectors / damaged cables in the autotrack system. Engineering support requested. TTR # 23772 CDS # 18383

11 Meter 1034-1048Z 7 Mins 47 Secs Svc/Data Loss

(Recov-Unk)

3. WGS/WIRE Support

25/2227-2238Z

Data degraded due to CRC errors. Data Recoverable is unknown will do a post-pass playback. VC0,VC1 and VC2 status, during support, from FEP nr.1 indicated excessive CRC errors. FEP nr.2 error count was nominal. Post-pass playback will be performed from FEP nr.2. Problem with FEP nr 1 is under investigation. TTR # 23773 CDS # 18385

TOTS 11 Mins Svc/Data Loss (Recov-Unk)

Part II . Testing Anomalies

A. SN Test - None.

B. GN Test

1. GOES-M Proficiency TLM 22/1500-22/1700Z HANGAR-
flow between ANTIGUA AE/ANTIGUA/
and GOES POCC NISN/TEL-4/KSC CD&SC/
GOES POCC/MOSA

Objectives:

Verify the capability of the GOES POCC to receive, record and process GOES-M telemetry sent from Antigua via HANGAR-AE.

Results: Objective Partially Met.

Remarks:

POCC established a good interface test between HANGAR-AE and the GOES POCCutilizing the HANGAR-AE PTP/CD ROM. When HANGAR-AE configured Antigua as the data source, the POCC was unable to lock on the data. Several reconfigurations were attempted to no avail. Antigua is going to investigate the problem. Test will be rescheduled.

Part III. Equipment Status Changes

A Green Items Since Last Report

1. NCC 043: CVAX:01-D6 R 03230511Z GREEN 03232044Z
Replaced CIBCI power supply.

\$ = Changed ETRO

** = New Items

Part IV. Scheduled Activities:

AGS/SGS/WGS TERRA GSIP Parallel Operations Phase II Test
26/1649-1701Z

Part V. Launch Forecast Changes:

- | | | |
|---|------------------|----------------|
| * 1.) W1576LS (PEGASUS/HESSI) | NET 15 May.,2001 | T-0 =
1400Z |
| * 2.) H4343LS (TAURUS/ORBVIEW-4
QUICKTOMS) | 178 27 JUN.,2001 | T-0
=1835Z |
| * 3.) M2100LS (STS-100/ISS-09-6A) | 109 19 APR.,2001 | T-0 =
1907Z |
| *4.) M2104LS (STS-104/ISS-10-7A) | NET 14 JUN.,2001 | T-0 =
2215Z |